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No. 20.

BULLETIN OF FOREIGN PLANT INTRODUCTIONS.

August 2 to September 1, 1909.

NEW PLANT IMMIGRANTS.

ALLIUM SP. 25841-844. Four varieties of onions from Teneriffe, Canary Islands. Presented by Hon. Solomon Berliner, American Consul. Received August 5.

AMYGDALUS (25894.) PRUNUS (Apricot.), 25895. PRUNUS (Cherry), 25896. PYRUS, 25897. From Simla, India. Presented by Mr. E. Cotes, Indian News Agency through Mr. Frank N. Meyer. Received Aug. 27, 1909. "These seeds were collected from wild Himalayan fruit trees growing at an elevation of 7000 feet about Simla. (Cotes.)

BAROSMA CRENULATA. 25817. Seed from Cape Town, South Africa. Presented by Mr. Chas. P. Lounsbury. Received August 2. "Buchu answers best if sown in time and treated in the same way as nursery transplants. In fact this is the only way that I have been able to get it to grow. The year before last and last year I put in broadcast sowings. These in both cases germinated well but the seedlings could not stand the summer heat of Jan. and Feb. when they practically all died off. In each case these sowings were put in in autumn and ground was selected where Buchu naturally grows. Buchu naturally grows amongst large rocks so that the roots go into the ground at the side of the rock; this keeps the roots cool and holds moisture longer. Buchu grows here at 1500-4000 feet elevation". (Lounsbury.)

BELOU MARMELOS. 25879. Two bael fruits from Lahore, Punjab, India. Presented by Mr. W. R. Mustoe, Superintendent Government Archaeological Garden. Received July 31.

BELOU MARMELOS. 25889-90. From Igatpuri, India. Presented by Mrs. Effie Pyle Fisher. Received Aug. 25. Two varieties of bael fruits, one from State Gardens, Baroda, and the other from Bangalore.

CINNAMOMUM. 25884. From Cochin, China. Secured by Mr. Xavier Salomon, Chief of Botanical Garden and presented by Mr. Jacob E. Conner. Received Aug. 24. This shipment also contained: ATALANTIA, 25885 and GARCINIA MANGOSTANA, 25887.

CITRULLUS VULGARIS. 25867. From Merw, Russian Turkestan. Presented by Capt. M. L. Cummins. Received August 13. "The melon is orange colored and not reddish inside and in my opinion was the best I have ever eaten. The seeds came from a melon I had in Merw in the south central part of Turkestan. (Cummins.)

CITRUS SP. 25862. Seeds from Saigon, Cochin China. Presented by Mr. Jacob E. Conner, American Consul. Received August 14. "A little fine, flat, green-skinned mandarin orange, a little larger than the ordinary ones of this type. The flesh is quite reddish in color and the flavor is a combination of that of the ordinary flat and the round, loose-skinned oranges". (Conner.)

GLADIOLUS. 25869. Corms and seed from Nhamacurra, Quelimane, Portuguese East Africa. Presented by Mr. O. W. Barrett. Received August 14. "A plant of the low, moist lands of the Zambesi Valley. Flowers pale yellow, medium size, opening nearly downwards. Bulb, pale brown coat, yellow inside. Height 2 to 3 feet. (Barrett.)

GOURDS. 25822-831. Seeds of ten kinds of gourds from Nice, France, presented by Hon. Dulany Hunter, Consul-General. Received August 3. "The 'Festival des Gougourdots' is held here in the spring and though I have never been able to get to it I understand that it is very interesting. I am sending you under separate cover a few packages of the gourds which are exhibited there. The nurseryman states that the seeds should be planted in a flower pot and not transferred until the plant is about to throw out a few leaves; that the soil should be well manured but not too abundantly as in that case the gourd does not become sufficiently dry to be used for holding liquids. When the plants are large enough they are tied to lattice work so they can be exposed to the sun. They need comparatively little water and the fruit should be protected from heavy dews by being kept covered at night. The seeds are planted in the spring and the fruit which dries on the plants is ready to be gathered by the end of September or early in October. The peasants at Cimiez make pipes and other articles of odd shapes by wrapping parts of the gourd before it has ripened with soft pieces of cloth and are thus enabled to bend them into the form they wish to produce. The covered parts do not develop freely and, remaining soft, can be bent into the desired shape". (Hunter.)

MACADAMIA TERNIFOLIA. 25845. From Wellington Point, Queensland, Australia. Presented by Mr. J. Pink. Received Aug. 2. Queensland nuts. The nuts are borne on spikes 4 to 7 inches long, each being of the size and shape of large marbles about $\frac{3}{4}$ of an inch in diameter. They have an agreeable flavor which according to some tastes is richer than that of the hazelnut. Their chief objection is, perhaps, their very hard shell which requires extra strong nut crackers to break.

MANGIFERA INDICA. 25861. Fruits of Julie mango from Botanic Gardens, Trinidad, British West Indies. Presented by Mr. F. Evans, Acting Superintendent. Received August 18.

OLEA FOVEOLATA. 25846. From Cape Town, South Africa. Presented by Mr. Chas. P. Lounsbury. Received August 9. "These were procured from the East London district. The district has a warm, temperate climate with about 30 inches of rainfall, chiefly in the summer months". (Lounsbury)

PENNISETUM AMERICANUM. 25863. From Nairobi, British East Africa. Presented by Mr. and Mrs. C. E. Akeley, Chicago, Ill. Economic plants grown by the Wakamba tribe of natives. Received August 17. This is a cat tail millet called by the Wakamba Mwee. This collection also contained: ELEUSINE CORACANA, 25864, native name Wimbi; CAJAN INDICUM, 25865, a species of bean said to be of rapid growth and used by the natives for wood; ZEA MAYS, 25866, a variety of Indian corn grown by the Wakamba.

PHASEOLUS LUNATUS. 25876. Presented by Mr. O. W. Barrett, Director of Agriculture, Lourenco Marques, Portuguese East Africa. Received August 21. "A slender stemmed climbing bean-like plant brought from the Congo Basin. Grown at Lourenco Marques. Flowers in short racemes, whitish. (Barrett.)

PHYSALIS. 25892. From Ootacamund, India. Presented by Rev. G. N. Thomssen. Received Aug. 20. From plants of 10 years select cultivation of the South African cape gooseberry in India.

PROTEA GRANDIFLORA. 25847. From Grahamstown, Cape Colony, South Africa. Presented by G. Medley Wood, Director Botanic Gardens,. Received July 31. "A shrub or small tree 3 to 10 feet high with oblong, sessile, shining leaves and large white flower heads which resemble an artichoke in appearance. (Skeels.)

PRUNUS. 25880. From Ottawa, Canada. Presented by Mr. W. T. Macoun, horticulturist, Central Experiment Farm. Received at the Upper Mississippi Plant Introduction Garden, Ames, Iowa, July 29. "This cherry appears to be hardier in fruit bud than any other cherry we have at the Experimental Farm and as it makes good preserves and is fair eating I think it quite an acquisition." (Macoun.)

SCHLEICHERA TRIJUGA. 25848. Seed from Dhamtari, Raipur, India. Presented by A. E. Lowrie, Deputy Conservator of Forests. Received August 12. "This Indian tree known as the lac tree or Ceylon oak is one of the sources of shellac. The wingless fertilized females of the lac insect (*Tachardia lacca* Kerr) with its piercing mouth parts punctures the bark of the young tender twigs from which the shellac flows down the stems and hardens. The seeds yield a fatty oil, the so-called 'Macassar' oil, which contains free hydrocyanic acid as well as the glycerides of oleic, palmitic and arachidic acids. The wood, which is much used, is hard and durable and takes a polish. The sap-wood is white, the heart-wood is reddish brown. (True)

TACCA(?) SP. 25816. Seeds from Quelimane, Zambesia, Portuguese East Africa. Presented by Mr. O. W. Barrett. Received July 31. "Semi-cultivated plant having 3-5 Amorphophallus like leaves from a cluster of thin-skinned, roundish corms and a corymbose cluster of greenish flowers on the summit of a naked yellowish erect stipe. Corms edible. The natives use it in a variety of ways--like potatoes and dry it in the form of a coarse flour. Habitat in and near the gardens of natives in Zambesia district. Native name I'lide. (Barrett.)

TRIFOLIUM PRATENSE. 25832-837. Six varieties of red clover grown at the North Dakota Sub-Experiment Station, Dickinson, N.D., for Mr. Chas. J. Brand under the supervision of Prof. L. R. Waldron. Crop of 1908. Received June 10, 1909.

VICIA FABA. 25898-901. Four varieties of horsebean from United Provinces, India. Presented by Mr. T. F. Main, Poona. Received August 27. "The last 3 numbers seem to be of one variety collected from different villages while the first is quite different." (Main.)

NOTES FROM FOREIGN CORRESPONDENTS.

EGYPT, Cairo. Khedival Agricultural Society. July 22. Is sending two sacks of horse beans. They are the same variety but grown under different systems of irrigation. No. 1 called Saidi grown in Upper Egypt under basin irrigation. No. 2 called Behiri in Lower Egypt under canal irrigation.

INDIA, Calcutta. Wm. Michael. July 9. Sends report on *Sesbania aculeata*. Says it is most excellent green manure plant; good for manufacture of cordage for which purpose it is to be preferred to either sunn hemp or jute. Does not know anything about its suitability for paper making.

INDIA, Kirkee. G. A. Gammie, July 1. Is sending seeds and fruits of wood apple of India (*Feronia elephantum*) and bael fruit. Will get seedlings of *Atalantia racemosa* and seeds of *Limonia acidissima*.

INDIA, Sibpur, Calcutta. Royal Botanic Gardens, July 22. Is sending *Clausenia Wampi* seed.

ITALY, La Mortola. Alwin Berger, July 29. Will send Wardian case with 4 *Pouteria suavis* in Sept.

ITALY, Taglia di PO. Mr. Haven Metcalf sent us seeds of *Fagiolini dall'occhio* (*Dolichos malanophthalmus*) which were sent him by Dr. Angelo Sullam.

KOREA, Seoul. American Consul-General, July 13. Is sending specimens of a fibre from which the Koreans manufacture grass cloth. Will send seeds of the plant in the late fall.

LADAKH, Leh. R. Galwan, July 2 Sends seed of beans, wheat and barley from Leh.

MADEIRA, Funchal. Alaricus Delmard, July 25. Will send photos of tobacco. Is making experiments in crossing tobacco with *Datura grandiflora*.

PHILIPPINE ISLANDS, Manila. Wm. S. Lyon. Is sending 1-year old pot-grown seedlings of Palawan variety of calamus: also 3-year old pot-grown seedlings brought from Balanes Islands.

RUSSIA, Moscow. Gerhard & Hey, August 11. Are forwarding 5 boxes of *Vicia villosa*.

SPAIN, Madrid. A. Ramirez, July 30. Sends samples of 8 varieties of oats from Province of Madrid.

TRANSVAAL, Pretoria. F. T. Nicholson, July 5. Is sending $\frac{1}{2}$ lb. of horsebeans. They do not grow well there. Suffer from drought and fungus diseases. Will send more and better gladiolus bulbs in a few days.

TRIPOLI-IN-BARBARY. Wm. Coffin, August 5. Will reach America about the last of October. Will bring seeds or cuttings of Esparto grass, pomegranates, grape varieties, spinless cacti, alfalfa, barley and plums. There is a matting plant which he will also try to bring.

TURKEY, Aintab. F. A. Shepard, July 21. Will send varieties of oats and horsebeans.